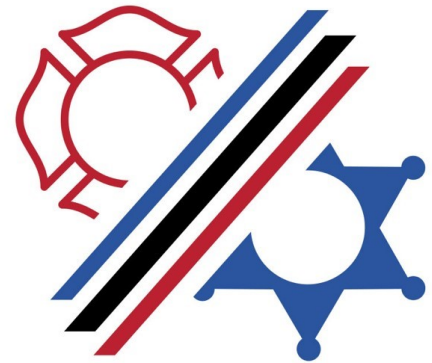


Electrical Fire & Arson Investigations



CARTERSON
PUBLIC SAFETY GROUP, INC

Instructor: Steve Riggs, CFI, CFEI, CVFI & CFII Certified State of Oklahoma (Retired)

Steve retired after twenty-two years of Law Enforcement, and Fire Service Experience in Oklahoma. Steve has been examining fire scenes for 40 years. Steve possesses a bachelor's degree in Emergency Services Management, Steve has extensive training in Fire Cause Determination, Criminal Investigation, Arson Investigation, Evidence Processing, Interviewing Techniques, and Case Management. He is a certified Police and Fire Instructor, and a Certified Fire Investigator Instructor.

Steve has successfully been involved in many Fire/Arson Prosecutions in Oklahoma and was involved in a Federal Prosecution. Steve has taught nationally for over twenty-two years throughout the United States.

Course Objectives

This training module will provide the fire/arson investigator with practical and technical skills necessary to investigate and determine electrical origin and cause of a fire.

This training module will provide both classroom and hands-on training with practical exercises on how to use electrical testing equipment and conduct a systematic accurate examination of electrical equipment, appliances, wiring and electrical circuits.

Attendees will be provided the necessary knowledge of electricity, the definition of electricity, how it cause fires, and how to testify in court for successful prosecution, and/or insurance determination.

Upon Successful Completion

Attendees will have been provided the skills and knowledge to:

- Demonstrate the proper sequence for investigating electrical fires.
- Understand electrical terminology.
- Demonstrate a working knowledge of 120/240 volt wiring used in residential and commercial settings and testing procedures.
- Demonstrate a working knowledge of electrical appliances and testing procedures.
- Demonstrate a working knowledge of electrical testing equipment, volt ohm meter, and ampere meter.
- Demonstrate a working knowledge of safety devices, controls and failures on appliances.
- Demonstrate the knowledge of how to document an electrical origin.
- Demonstrate knowledge of National Fire Protection Association 921 and National Fire Protection Association 1033.
- Demonstrate knowledge of how to use the internet to conduct fire/arson investigation research and obtain electrical equipment/appliance recall information.

A download resource password will be provided to each attendee to download the class resources for future reference.

www.cartersonpublicsafety.com

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Electrical Fire & Arson Investigations



DAY ONE

- 8:00 a.m. – 8:30 a.m. **Registration**
- 8:30 a.m. – 9:30 a.m. Electrical Overview
- 9:30 a.m. – 12:00 p.m. Electricity
- Basic Electricity
 - Terminology
 - Electrical Investigating Sequence
- 12:00 p.m. – 1:00 p.m. **Lunch (On-Own)**
- 1:00 p.m. – 3:00 p.m. Electricity, *Continued*
- 3:00 p.m. – 5:00 p.m. Electrical Testing Equipment

DAY TWO

- 8:00 a.m. – 9:15 a.m. Internet Research for Recalls, Fire, Police, Private and Insurance Investigation Sites
- 9:30 a.m. – 11:00 a.m. Appliance Controls and Safety Devices Including Charts
- 11:00 a.m. – 12:00p.m. How to Test Appliances
- 12:00 p.m. – 1:00 p.m. **Lunch (On Own)**
- 1:00 p.m. – 2:30 p.m. Practical Exercise– Attendees Will Disassemble and Test Appliance Controls and Safety Devices
- Practical Exercise—Attendees Check
- Open and Closed Circuits of Various Breakers, Switches, Fuses
 - Locate and Test Circuits in Electrical Panel Box
 - Check Amperage on Operating Equipment
- 2:30 p.m. – 4:00 p.m. Outside Demonstration and Class Participation Live Burns of Appliances, Wires, and Electrical Failures
- 4:00 p.m. – 5:00 p.m. Final Questions & Overview of the Day

DAY THREE

- 8:00 a.m. – 9:15 a.m. Spoliation (Destruction) of Evidence (Civil Tort)
- 9:15 a.m. – 10:15 a.m. Impact of N.F.P.A. 921, N.F.P.A. 1033, and Testifying on Electrical Fire Investigations. Review National Certifications available to the Investigator
- 10:15 a.m. – 12:00 p.m. Practical Exercise—Attendees will be Assigned an Electrical Fire Case to Investigate Conduct Tests, Determine the Cause, Document, and Prepare a Case Report From Items Burned the Previous Day Case Presentation From Groups Investigation and Their Findings